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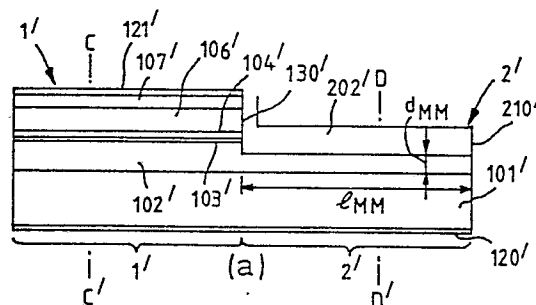
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54 **A semiconductor light-emitting apparatus.**

57 A semiconductor light-emitting apparatus comprising a semiconductor laser array device (1, 1') with a plurality of lasing filaments and a mode-mixing device (2, 2') with a striped optical waveguide (202, 202') that attains an optical phase-coupling with the semiconductor laser array device (1, 1'), whereby beams from the semiconductor laser array device (1, 1') are emitted from the light-emitting facet (130, 130') of the semiconductor light-emitting apparatus via the mode-mixing device (2, 2'), thereby attaining a near-field pattern with a minimized ripple rate on the optical intensity.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	JOURNAL OF PHYSICS E; SCIENT. INSTR., vol. 12, no. 8, August 1979, pages 688-689, The Institute of Physics, GB; A.G. CULLIS et al.: "A device for laser beam diffusion and homogenisation" * Whole article *	1	H 01 S 3/23 H 01 S 3/19 G 02 B 6/10
A	PATENT ABSTRACTS OF JAPAN, vol. 8, no. 68 (P-264)[1505], 30th March 1984; & JP-A-58 215 612 (MITSUBISHI DENKI K.K.) 15-12-1983 * Abstract *	1,3	
A	EP-A-0 159 258 (L. MENIGAUX et al.) * Page 8, line 23 - page 10, line 20; figure 5 *	1-3	
A	EP-A-0 187 581 (THOMSON-CSF) * Page 5, line 28 - page 7, line 4; figures 2-7 *	1,3	
D,A	JOURNAL OF APPLIED PHYSICS, vol. 58, no. 7, 1st October 1985, pages 2783-2785, American Institute of Physics, New York, US; M. MATSUMOTO et al.: "Stable supermode operation in phase-locked laser diode arrays with three index waveguides" * Page 2784; figures 1,3,4 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl.4) H 01 S G 02 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23-08-1988	Examiner GNUGESSER H.M.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	